(FILE 'HOME' ENTERED AT 23:51:58 ON 20 JUL 2003)

FILE 'CAPLUS' ENTERED AT 00:08:14 ON 21 JUL 2003
L1 22744 S (CATALYTIC(3W)HYDROGENATION)/IA
L2 4542 S (RANEY(2W)CATALYST#)/IA
L3 109 S (HOLLOW(3W)CATALYST#)/IA
L4 2 S L1 AND L3

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:539639 CAPLUS
DOCUMENT NUMBER: 137:95532
TITLE: Production of substituted amines by hydrogenation of organic nitro compounds in the presence of Raney-type catalysts in the form of hollow bodies
INVENTOR(S): Ostgard, Daniel; Berweiler, Monika; Roeder, Stefan
PATENT ASSIGNEE(S): Degussa Ag, Germany
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055476	A1	20020718	WO 2002-EP165	20020110
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10101647	A1	20020718	DE 2001-10101647	20010116
US 2002151751	A1	20021017	US 2002-46537	20020116

PRIORITY APPLN. INFO.: DE 2001-10101647 A 20010116
OTHER SOURCE(S): MARPAT 137:95532
AB Substituted amines are produced by **catalytic hydrogenation** of substituted org. nitro compds. with hydrogen or hydrogen-contg. gas mixts. in the presence of a hydrogenation catalyst which is a shaped Raney catalyst in the form of hollow bodies, granules or tablets. Nickel, cobalt, copper, iron, platinum, palladium or ruthenium are preferably used as catalytically active constituents. Thus, a catalyst was prepd. by coating polystyrene spheres (2 mm in diam.) with the suspensions contg. nickel-aluminum alloy powder and nickel powder stabilized with 2% poly(vinyl alc.). These coated spheres were heated to 500.degree. to burn out polystyrene, and then Ni-Al hollow spheres were sintered at 800.degree.. After activation with 20% sodium hydroxide at 80.degree., the **hollow catalyst** spheres were used for hydrogenation of dinitrotoluene to produce toluenediamine.
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2002:504736 CAPLUS
DOCUMENT NUMBER: 137:64898
TITLE: Production of alcohols by hydrogenation of carbonyl

compounds using Raney-type catalysts in the form of hollow spheres

INVENTOR(S): Ostgard, Daniel; Berweiler, Monika; Roeder, Stefan
PATENT ASSIGNEE(S): Degussa A.-G., Germany

SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051779	A2	20020704	WO 2001-EP15264	20011221
WO 2002051779	A3	20030306		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10065029	A1	20020704	DE 2000-10065029	20001223
US 6486366	B1	20021126	US 2001-24487	20011221

PRIORITY APPLN. INFO.: DE 2000-10065029 A 20001223
WO 2001-EP12567 W 20011031

OTHER SOURCE(S): MARPAT 137:64898

AB Alcs. are produced by **catalytic hydrogenation** of carbonyl compds. with hydrogen or gases that contain hydrogen in the presence of a Raney-type hydrogenation catalyst, where the catalyst is utilized in the form of hollow bodies. Nickel, cobalt, copper, iron, platinum, palladium or ruthenium are preferably used as catalytically active constituents. Thus, a catalyst was prepd. by coating polystyrene spheres (2 mm in diam.) with the suspensions contg. nickel-aluminum alloy powder and nickel powder stabilized with 2% poly(vinyl alc.). These coated spheres were heated to 500.degree. to burn out polystyrene, and then Ni-Al hollow spheres were sintered at 800.degree.. After activation with 20% sodium hydroxide at 80.degree., the **hollow catalyst** spheres were used for hydrogenation of glucose to produce sorbitol.